

### REMARKS

In the final Office Action of April 27, 2005, claims 4-7, 28 and 29 were allowed and claim 10 was objected to as dependent on a non-allowed claim. Claims 8, 9 and 27 were rejected under 35 U.S.C. §101 as drawn to non-statutory subject matter, and claims 23-26 were rejected under 35 U.S.C. §103(a) as obvious over Chow, United States Patent No. 5,768,171. Claims 23-26 and 30-33 were rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. Claim 1-3 and 11-22 have been cancelled without prejudice.

Applicants wish to thank the Examiner for the courtesy of a telephone interview on July 27, 2005 at which agreement was reached on revisions to the claims that make them allowable.

Claims 8 and 27 have been rewritten to make it clear that the method is performed in an apparatus. Claims 23 and 30 have been amended to make it clear that the matching circuit matches a selected segment of the input value. References in these claims to "respective ones" of the predetermined values have been deleted because such references are believed to be inconsistent with statements that the matching circuit matches a selected segment. Claim 23 has also been amended to recite a shifter circuit.

With the revisions in claims 8 and 27, it is believed that there is no dispute that these claims are drawn to statutory subject matter under U.S.C. 101.

In reciting that the matching circuit matches a selected segment, applicants are adopting language proposed by the Examiner. Accordingly, claims 23-26 and 30-33 are believed to satisfy the requirements of 35 U.S.C. 112, first paragraph.

Claim 23 has been amended to make it similar to claim 30 which has not been rejected on art. As a result, claim 23 is believed to be patentable.

Dependent claims 24-26 are believed to be patentable for the same reason claim 23 is patentable.

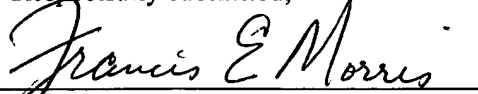
Entry of this amendment at this time is believed appropriate since the amendment addresses each of the issues raised by the Examiner and is believed to put this application in condition for allowance.

In view of the forgoing remarks, the claims in this application are believed to be in condition for allowance. Such action is respectfully requested. If the Examiner believes

a telephone interview would expedite prosecution of this application, he is invited to call applicants' attorney at the number given below.

Date: July 27, 2005

Respectfully submitted,

A handwritten signature in cursive script, reading "Francis E. Morris", written over a horizontal line.

Francis E. Morris

Registration No. 24,615

**MORGAN LEWIS & BOCKIUS LLP**

101 Park Avenue

New York, NY 10178

(212) 309-6632